

PTO/SB/08A (10-01)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet **1** of **7****Complete if Known**

Application Number	09/965,097
Filing Date	September 28, 2001
First Named Inventor	David F. Moore
Art Unit	2673
Examiner Name	Xiao M. Wu
Attorney Docket Number	IMMR007/01US

U.S. PATENT DOCUMENTS					
Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Xiao M. Wu		20030201975	10/30/03	Balley et al.	
		20020030663	3/14/02	Tierling et al.	
		6,717,573	4/6/04	Shaholian et al.	
		6,707,443	3/16/04	Bruneau et al.	
		6,697,043	2/24/04	Shaholian et al.	
		6,585,595	7/1/03	Soma et al.	
		6,424,333	7/23/02	Tremblay et al.	
		6,422,941	7/23/2002	Thomer et al.	
		6,317,032	11/13/01	Oishi	
		6,275,213	8/14/01	Tremblay et al.	
		6,211,861	4/3/01	Rosenberg et al.	
		6,198,206	3/6/01	Saamaa et al.	
		6,184,868	2/6/01	Shaholian et al.	
		6,160,489	12/12/2000	Perry et al.	
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		6,088,017	7/11/00	Tremblay et al.	
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		6,044,646	4/4/00	Silverbrook	
		6,004,134	12/21/99	Marcus et al.	
		6,001,014	12/14/99	Ogata et al.	
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		5,984,880	11/16/99	Lander et al.	
		5,973,670	10/26/99	Barber et al.	
		5,945,772	8/31/99	Macnak et al.	
		5,914,705	6/22/99	Johnson et al.	
		5,897,437	4/27/99	Nishiumi et al.	
		5,894,263	4/13/99	Shimakawa et al.	
		5,889,672	3/30/99	Schuler et al.	
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		5,805,140	9/8/98	Rosenberg et al.	
		5,790,108	8/4/98	Salcudean et al.	
		5,784,052	7/21/98	Keyson	

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Xiao M. Wu

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Sheet **2**of **7**

Complete if Known

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Attorney Docket Number	IMMR007/01US

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XW		5,781,172	7/14/98	Engel et al.	
		5,754,023	5/19/98	Roston et al.	
		5,742,278	4/21/98	Chen et al.	
		5,739,811	4/14/98	Rosenberg et al.	
		5,736,978	4/7/98	Hasser et al.	
		5,734,373	3/31/98	Rosenberg et al.	
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		5,296,871	3/22/94	Paley	
		5,283,970	2/8/1994	Aligner	
		5,203,563	4/20/93	Loper, III	
		5,186,695	2/16/1993	Mangseth et al.	
		5,186,629	2/16/93	Rohen	
XW		5,184,319	2/2/93	Kramer	

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Xiao Wu

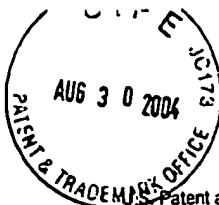
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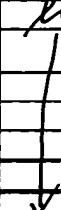



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		Filing Date	September 28, 2001
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		Examiner Name	Xiao M. Wu
Sheet 3 of 7	Attorney Docket Number	IMMR007/01US	

U.S. PATENT DOCUMENTS					
Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
See ↓ See		5,175,459	12/29/1992	Daniel et al.	
		5,165,897	11/24/1992	Johnson	
		5,146,566	9/8/92	Hollis, Jr. et al.	
		5,107,262	4/21/92	Cadoz et al.	
		5,103,404	4/7/92	McIntosh	
		5,022,384	6/11/1991	Freels	
		4,885,565	12/5/1989	Embach	
		4,868,549	9/19/89	Affinito et al.	
		4,795,296	1/3/89	Jau	
		4,731,603	3/15/88	McRae et al.	
		4,706,294	11/10/87	Ouchida	
		4,484,191	11/20/1984	Vavra	
		4,464,117	8/7/1984	Foerst	
		4,414,984	11/15/83	Zarudiansky	
		4,333,070	6/1/1982	Barnes	
		4,262,549	4/21/1981	Schwellenbach	
		4,127,752	11/28/1978	Lowthorp	
		3,919,691	11/11/75	Noll	
	2,972,140	2/14/1961	Hirsch		
	RE37,374	9/18/01	Roston et al.		

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
		JP	H2-185278		7/19/1990	Taito Corporation	RECEIVED SEP 02 2004
		JP	H4-8381		1/13/1992	Epoch Co. and Key-Planning Co.	
		JP	H7-24147		1/27/1995	Sega Corporation	
		JP	H5-192449		8/3/1993	Taito Corporation	
		WO	92/00559		1/9/1992		Technology Center
		EP	0607580	A1	7/27/1994		
		EP	0265011		4/27/1988		
		EP	0626634	A2	5/11/1994		

Examiner Signature	Xiao Wu	Date Considered	1-8-05
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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
Xw		WO	01/03105		1/11/2001		
		WO	01/24158		4/5/2001		
		WO	97/31333		8/28/1997		
		WO	01/13354		2/22/2001		
		WO	98/32112		7/23/19.98		
		WO	99/40504		12/8/1999		
Xw		WO	02/27705		4/4/2002		

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Sheet 5 of 7

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
Xm		PATRICK, "Design, Construction, and Testing of a Fingertip Tactile Display for Interaction with Virtual and Remote Environments," <i>Master of Science Thesis</i> , MIT, Aug. 1990, archived Nov. 8, 1990.	
		CALDER, "Design of A Force-Feedback Touch-Introducing Actuator For Teleoperator Robot Control," <i>Bachelor of Science Thesis</i> , MIT, May 1983, archived June 23, 1983.	
		WIKER, "Teletouch Display Development Phase 1 Report," <i>Technical Report 1230</i> , Naval Ocean Systems Center, San Diego, July 1988.	
		BLISS, "Optical-to-Tactile Image Conversion for the Blind," <i>IEEE Transactions on Man-Machine Systems</i> , Vol. MMS-11, No. 1, March 1970.	
		JOHNSON, "Shape-Memory Alloy Tactile Feedback Actuator," <i>Armstrong Aerospace Medical Research Laboratory</i> , AAMRL-TR-90-039, August, 1990.	
		KONTARINIS et al., "Tactile Display of Vibratory Information in Teleoperation and Virtual Environments," <i>PRESENCE</i> , 4(4):387-402, Harvard Univ., 1995.	
		AUKSTAKALNIS et al., "Silicon Mirage: The Art and Science of Virtual Reality," ISBN 0-938151-82-7, pp. 129-180, 1992.	
		EBERHARDT et al., "Inducing Dynamic Haptic Perception by The Hand: System Description and Some Results," <i>DSC-Vol. 55-1, Dynamic Systems and Control</i> , Volume 1, ASME 1994.	
		GOBEL et al., "Tactile Feedback Applied to Computer Mice," <i>International Journal of Human-Computer Interaction</i> , Vol. 7, No. 1, pp. 1-24, 1995.	
		PIMENTEL et al., "Virtual Reality: through the new looking glass," 2 nd Edition: McGraw-Hill, ISBN 0-07-050167-X, pp. 41-202, 1994.	
		"Cyberman Technical Specification," <i>Logitech Cyberman SWIFT Supplement to Logitech Mouse Technical Reference and Programming Guide</i> , 4/5/1994.	
		OUHYOUNG et al., "The Development of A Low-Cost Force Feedback Joystick and Its Use in the Virtual Reality Environment," <i>Proceedings of the Third Pacific Conference on Computer Graphics and Applications, Pacific Graphics '95</i> , Seoul, Korea, 21-24 August 1995.	
		KACZMAREK et al., "Tactile Displays," <i>Virtual Environment Technologies</i> , Chap. 9, pp. 349-414.	
		LAKE, "Cyberman from Logitech," at http://www.ibiblio.org/GameBytes/issue21/greviews/cyberman.html , 1994.	
Xm		"Component Maintenance Manual With Illustrated Parts List, Coaxial Control Shaker Part no. C-25502," Safe Flight Instrument Corporation, Revised 28 January 2002 (3 pages).	

Examiner Signature	XIAO Wu	Date Considered	1-8-05
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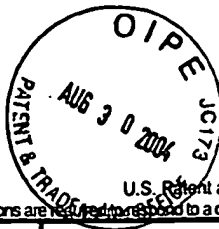
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Sheet	6	of	7

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
Xm		"Technical Manual Overhaul Instructions With Parts Breakdown, Coaxial Control Shaker Part no. C-25502," Safe Flight Instrument Corporation, Revised 15 July 1980 (23 pages).
		SCANNELL, "Taking a Joystick Ride," <i>Computer Currents</i> , Boston Edition, Vol. 9, No. 11, November 1994
		YAMAKITA et al., "Tele-Virtual Reality of Dynamic Mechanical Model," <i>Proceedings of the 1992 IEEE/RSJ International Conference on Intelligent Robots and Systems</i> , Raleigh, NC, July 7-10, 1992
		NOLL, "Man-Machine Tactile," <i>SID Journal</i> , July/August 1972 Issue.
		ROSENBERG, "Virtual Fixtures: Perceptual Overlays Enhance Operator Performance In Telepresence Tasks," <i>Ph.D. Dissertation</i> , Stanford University, June 1994.
		SCHMULDT, Brian et al., "Application Areas for a Force-Feedback Joystick," <i>ASME</i> 1993, DSC-Vol. 49, pp. 47-54.
		HASSER, Christopher John, "Tactile Feedback for a Force-Reflecting Haptic Display," <i>The School of Engineering, University of Dayton</i> , December 1995, pp. iii-xii & 1-96.
		AKAMATSU, M. et al., "Multimodal Mouse: A Mouse-Type Device with Tactile and Force Display," <i>Presence</i> , Vol. 3, No. 1, 1994, pp. 73-80.
		KELLEY, A. J. et al., "MagicMouse: Tactile and Kinesthetic Feedback in the Human-Computer Interface using an Electromagnetically Actuated Input/Output Device," <i>Dept. of Elec. Eng., Univ. of Brit. Columbia</i> , 1993, pp. 1-27.
		HASSER, C. et al., "Tactile Feedback with Adaptive Controller for a Force-Reflecting Haptic Display," <i>Parts 1&2, IEEE 0-7803-3131-1</i> , 1996, pp. 526-533.
		RAMSTEIN, C., "Combining Haptic and Braille Technologies: Design Issues and Pilot Study," <i>ASSETS '96</i> , 2nd Annual ACM Conf. on Assistive Technologies, 1996, pp. 37-44.
		DENNERLEIN, et al., "Vibrotactile Feedback for Industrial Telemanipulators," <i>ASME IMECE</i> , 6th Annual Symp. On Haptic Interfaces for Virtual Environment and Teleoperator Systems, Nov. 1997, pp. 1-7.
		MINSKY, Margaret et al., "Feeling and Seeing: Issues in Force Display," <i>ACM 089791-351-5</i> , 1990, pp. 235-242.
		OUH-YOUNG, M. et al., "Creating an Illusion of Feel: Control Issues in Force Display," <i>Computer Science</i> , University of North Carolina, 1989, pp. 1-14.
Xm		HASSER, C., "Force-Reflecting Anthropomorphic Hand Masters," <i>AL/CF-TR-1995-0110</i> , 1995, pp. 5-31.

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<i>Xm</i>		KIM, Won, "Telemanipulator Technology and Space Telerobotics," SPIE Proceedings, 1993, Vol. 2057, pp. 40-50.	

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Examiner Signature	<i>Xiao Wu</i>	Date Considered	<i>1-8-05</i>
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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